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NEWS 6 Apr 22 Records from IP.com available in CAPLUS,

HCAPLUS, and ZCAPLUS

NEWS 7 Apr 22 BIOSIS Gene Names now available in

TOXCENTER

NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available

NEWS 9 Jun 03 New e-mail delivery for search results now available

NEWS 10 Jun 10 MEDLINE Reload

NEWS 11 Jun 10 PCTFULL has been reloaded

NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment

NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;

saved answer sets no longer valid NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY

NEWS 15 Jul 30 NETFIRST to be removed from STN

NEWS 16 Aug 08 CANCERLIT reload

NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN

NEWS 18 Aug 08 NTIS has been reloaded and enhanced

NEWS 19 Aug 09 JAPIO to be reloaded August 18, 2002

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CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),

AND CURRENT DISCOVER FILE IS DATED 05

FEBRUARY 2002

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=> s embryonic stem cell

8688 EMBRYONIC STEM CELL Ll

=> s neuron?

L2 731034 NEURON?

=> s 11 and 12

733 L1 AND L2 1.3

=> s serum free or (without(3a)serum) or (minus(3a)serum) 56250 SERUM FREE OR (WITHOUT(3A) SERUM) OR

(MINUS(3A) SERUM)

=> s 13 and 14

L5 13 L3 AND L4

=> dup rem 15

PROCESSING COMPLETED FOR L5

L6 9 DUP REM L5 (4 DUPLICATES REMOVED)

=> d ti so 1-9

L6 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2002 ACS

TI Embryonic stem cells and neural progenitor cells derived therefrom

SO PCT Int. Appl., 125 pp.

CODEN: PIXXD2

L6 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2002 ACS

TI Regulation of apoptosis during neuronal differentiation by ceramide and b-series complex gangliosides

SO Journal of Biological Chemistry (2001), 276(48), 44396-44404 CODEN: JBCHA3; ISSN: 0021-9258

L6 ANSWER 3 OF 9 MEDLINE

TI Direct neural fate specification from embryonic stem cells: a primitive mammalian neural stem cell stage acquired through a default mechanism.

SO NEURON, (2001 Apr) 30 (1) 65-78. Journal code: 8809320. ISSN: 0896-6273.

L6 ANSWER 4 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Induction of midbrain dopaminergic neurons from ES cells by stromal cell-derived inducing activity.

SO Neuron, (October, 2000) Vol. 28, No. 1, pp. 31-40. print. ISSN: 0896-6273.

L6 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2002 ACS

TI Method for the preparation of neural precursor cells and their application

in transplantation for the therapy of neural defects

SO Ger., 26 pp.

stem cells.

CODEN: GWXXAW

DUPLICATE 1

L6 ANSWER 6 OF 9 MEDLINE TI BMP-4 inhibits neural differentiation of murine embryonic

SO JOURNAL OF NEUROBIOLOGY, (1999 Sep 5) 40 (3) 271-87.

L6 ANSWER 7 OF 9 MEDLINE

DUPLICATE 2

TI Embryonic stem cells as a model for studying regulation of cellular differentiation.

SO THERIOGENOLOGY, (1998 Jan 1) 49 (1) 145-51. Journal code: 0421510. ISSN: 0093-691X.

L6 ANSWER 8 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Neuronal induction of embryonic stem cells in serum-free medium.

SO Society for Neuroscience Abstracts, (1996) Vol. 22, No. 1-3, pp. 521.

Meeting Info.: 26th Annual Meeting of the Society for Neuroscience Washington, D.C., USA November 16-21, 1996 ISSN: 0190-5295.

L6 ANSWER 9 OF 9 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. DUPLICATE 3

TI PARTIAL EXPRESSION OF MONOAMINERGIC SEROTONINERGIC PROPERTIES BY THE

MULTIPOTENT HYPOTHALAMIC CELL LINE F-7 AN

EXAMPLE OF LEARNING AT THE

CELLULAR LEVEL.
SO NEUROCHEM INT, (1986) 9 (1), 43-54.
CODEN: NEUIDS. ISSN: 0197-0186.

=> d ibib ab 1,5,6

L6 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001:693474 CAPLUS

DOCUMENT NUMBER: TITLE: Embry

MBER: 135:238973 Embryonic stem cells and

neural progenitor cells derived therefrom

INVENTOR(S): Pera, Martin Frederick; Ben-Hur, Tamir PATENT ASSIGNEE(S): Monash University, Australia; National

University of

Singapore; Hadasit Medical Research Services and Development Company Limited; Reubinoff

SOURCE:

PCT Int. Appl., 125 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2001068815 A1 20010920 WO 2001-AU278

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,

HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,

LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,

SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,

YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,

DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF.

BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
US 2002068045 A1 20020606 US 2001-808382 20010314
PRIORITY APPLN. INFO.: AU 2000-6211 A 20000314

AU 2000-1279 A 20001106 AU 2001-2920 A 20010206

AB The present invention relates to undifferentiated human embryonic stem cells, methods of cultivation and propagation and

prodn. of differentiated cells. In particular it relates to the prodn. of human ES cells capable of yielding somatic differentiated cells in

as well as committed progenitor cells such as neural progenitor cells capable of giving rise to mature somatic cells including neural cells and/or glial cells and uses thereof. In one aspect of the present invention, there is provided an enriched prepn. of undifferentiated

embryonic stem cells capable of proliferation

in vitro and differentiation to neural progenitor cells, neuron cells and/or glial cells. This invention provides a method that

an in vitro and in vivo model of controlled differentiation of ES cells towards the neural lineage. The model, and the cells that are generated

along the pathway of neural differentiation may be used for the study

the cellular and mol. biol. of human neural development, for the discovery

of genes, growth factors, and differentiation factors that play a role in neural differentiation and regeneration, for drug discovery and for the development of screening assays for teratogenic, toxic and

neuroprotective

effects.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L6 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1999:286235 CAPLUS

DOCUMENT NUMBER: 130:278952

TITLE:

Method for the preparation of neural precursor cells and their application in transplantation for the

therapy of neural defects

INVENTOR(S): Bruestle, Oliver

PATENT ASSIGNEE(S): Germany SOURCE: Ger., 26 pp.

CODEN: GWXXAW

DOCUMENT TYPE: Patent

LANGUAGE: German FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | · KI | ND DATE | APPLICATION NO. DATE | |
|-------------|------|----------|---------------------------|--|
| DE 19756864 | | 19990429 | DE 1997-19756864 19971219 | |
| CA 2315538 | ٠. | 19990701 | CA 1998-2315538 19981218 | |
| WO 9932606 | | 19990701 | WO 1998-DE3817 19981218 | |
| WO 9932606 | A3 | 19990826 | | |
| | | | | |

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DK,

EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KF.

KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW,

 $\mathsf{MX}, \mathsf{NO}, \mathsf{NZ}, \mathsf{PL}, \mathsf{PT}, \mathsf{RO}, \mathsf{RU}, \mathsf{SD}, \mathsf{SE}, \mathsf{SG}, \mathsf{SI}, \mathsf{SK}, \mathsf{SL}, \mathsf{TJ}, \mathsf{TM}, \mathsf{TR},$

TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,

FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI.

CM, GA, GN, GW, ML, MR, NE, SN, TD, TG AU 9925106 A1 19990712 AU 1999-25106 19981218 EP 1040185 A2 20001004 EP 1998-966817 19981218 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE.

IE, FI

MC, PT,

JP 2001526884 T2 20011225 JP 2000-525525 19981218
PRIORITY APPLN. INFO.: DE 1997-19756864 A
19971219

WO 1998-DE3817 W 19981218

AB The invention concerns the prodn. of purified neuronal and/or glial precursor cells from embryonic stem cells that contain max. 1.5% primitive embryonic stem and non-neural cells. The procedure is performed in series of steps: cultivation of embryonic stem cells to form embryoid bodies; cultivation of the embryoid bodies to form neural precursor cells; proliferation of neural cells in a serum free, growth factor contg. culture medium. Neuronal precursor cells are passaged to an other culture media with growth

and either the neuronal or glial precursor cells are isolated and purified; or the cells are grown to spheroids with neuronal and glial differentiation potential. This is followed by the proliferation of the spheroid cells to form a confluent cell culture of glial precursor cells; and isolation of the purified glial precursor cells from the touch-down culture. Mammalian cells are used that are astrocytes, oligodendrocytes and neuronal cells; they can be genetically modified. The purified precursor cells are suspended in

injection soln.; they can be used for the therapy of nerve diseases; for the reconstruction of neurons or remyelination of demyelinated neurons. The precursor cells can be used for gene transfer and for the prodn. of polypeptides.

L6 ANSWER 6 OF 9 MEDLINE **DUPLICATE 1** ACCESSION NUMBER: 1999370092 MEDLINE DOCUMENT NUMBER: 99370092 PubMed ID: 10440729 TITLE: BMP-4 inhibits neural differentiation of murine embryonic stem cells.

Finley M F; Devata S; Huettner J E CORPORATE SOURCE: Department of Cell Biology and Physiology and Program in

> Neuroscience, Washington University Medical School, 660 South Euclid Avenue, St. Louis, Missouri 63110, USA.

CONTRACT NUMBER: NS30888 (NINDS) JOURNAL OF NEUROBIOLOGY, (1999 Sep 5) 40 SOURCE:

(3) 271-87.

factor

an

Journal code: 0213640. ISSN: 0022-3034.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: **Priority Journals**

ENTRY MONTH: 199912

ENTRY DATE: Entered STN: 20000113

Last Updated on STN: 20000113 Entered Medline: 19991220

AB Members of the transforming growth factor-beta superfamily, including bone

morphogenetic protein 4 (BMP-4), have been implicated as regulators of

neuronal and glial differentiation. To test for a possible role of BMP-4 in early mammalian neural specification, we examined its effect on

neurogenesis in aggregate cultures of mouse embryonic stem (ES)

Compared to control aggregates, in which up to 20% of the cells acquired

immunoreactivity for the neuron-specific antibody TuJ1, aggregates maintained for 8 days in serum-free medium containing BMP-4 generated 5- to 10-fold fewer neurons. The action of BMP-4 was dose dependent and restricted to the fifth through

eighth day in suspension. In addition to the reduction in neurons , we observed that ES cell cultures exposed to BMP-4 contained fewer cells

that were immunoreactive for glial fibrillary acidic protein or the HNK-1

neural antigen. Furthermore, under phase contrast, cultures prepared

BMP-4-treated aggregates contained a significant proportion of nonneuronal

cells with a characteristic flat, elongated morphology. These cells were

immunoreactive for antibodies to the intermediate filament protein

vimentin; they were rare or absent in control cultures. Treatment with BMP-4 enhanced the expression of the early mesodermal genes brachyury and

tbx6 but had relatively little effect on total cell number or cell death. Coapplication of the BMP-4 antagonist noggin counteracted the effect of

exogenous BMP-4, but noggin alone had no effect on neuralization in either

the absence or presence of retinoids. Collectively, our results suggest that BMP-4 can overcome the neuralizing action of retinoic acid to

mesodermal differentiation of murine ES cells. Copyright 1999 John Wiley & Sons, Inc.

=> d his

(FILE 'HOME' ENTERED AT 13:31:41 ON 12 AUG 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 13:31:52 ON 12 AUG 2002

8688 S EMBRYONIC STEM CELL LI

1.2 731034 S NEURON?

L3 733 S L1 AND L2

56250 S SERUM FREE OR (WITHOUT(3A)SERUM) OR L4 (MINUS(3A)SERUM)

L5 13 S L3 AND L4

1.6 9 DUP REM L5 (4 DUPLICATES REMOVED)

=> s defin? media or defin? medium

L7 14822 DEFIN? MEDIA OR DEFIN? MEDIUM

=> s 13 and 17

L8 12 L3 AND L7

=> dup rem 18 PROCESSING COMPLETED FOR L8

1.9 6 DUP REM L8 (6 DUPLICATES REMOVED)

=> d ti so 1-6

L9 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS

TI The use of chemically defined media for the analyses of early development in ES cells and mouse embryos

SO Methods in Molecular Biology (Totowa, NJ, United States) (2002), 185(Embryonic Stem Cells), 17-26 CODEN: MMBIED; ISSN: 1064-3745

L9 ANSWER 2 OF 6 MEDLINE

DUPLICATE 1

TI Nestin-specific green fluorescent protein expression in embryonic stem cell-derived neural precursor cells used for transplantation.

SO STEM CELLS, (2001) 19 (5) 419-24. Journal code: 9304532. ISSN: 1066-5099.

L9 ANSWER 3 OF 6 MEDLINE

DUPLICATE 2

TI Enrichment of neurons and neural precursors from human embryonic stem cells.

SO EXPERIMENTAL NEUROLOGY, (2001 Dec) 172 (2) 383-97. Journal code: 0370712. ISSN: 0014-4886.

L9 ANSWER 4 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Derivation of functional neurons from primate pluripotent parthenogenetic stem cells.

SO Society for Neuroscience Abstracts, (2001) Vol. 27, No. 1, pp. 345. print.

Meeting Info.: 31st Annual Meeting of the Society for Neuroscience San

Diego, California, USA November 10-15, 2001 ISSN: 0190-5295.

L9 ANSWER 5 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Positional specification of in vitro generated, ESEs cell-derived neural

progenitors.

SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract

No.-23.2. print.

Meeting Info.: 30th Annual Meeting of the Society of Neuroscience New

Orleans, LA, USA November 04-09, 2000 Society for Neuroscience . ISSN: 0190-5295.

L9 ANSWER 6 OF 6 MEDLINE

DUPLICATE 3

TI Lineage-restricted neural precursors can be isolated from both the

neural tube and cultured ES cells.

SO DEVELOPMENTAL BIOLOGY, (1999 Oct 1) 214 (1) 113-27. Journal code: 0372762. ISSN: 0012-1606.

=> d his

(FILE 'HOME' ENTERED AT 13:31:41 ON 12 AUG 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 13:31:52 ON 12 AUG 2002

L1 8688 S EMBRYONIC STEM CELL

L2 731034 S NEURON?

L3 733 S L1 AND L2

L4 56250 S SERUM FREE OR (WITHOUT(3A)SERUM) OR (MINUS(3A)SERUM)

L5 13 S L3 AND L4

L6 9 DUP REM L5 (4 DUPLICATES REMOVED)

L7 14822 S DEFIN? MEDIA OR DEFIN? MEDIUM

L8 12 S L3 AND L7

L9 6 DUP REM L8 (6 DUPLICATES REMOVED)

=> s emx2 or hoxb1 or leukemia inhibitory factor or nestin L10 7583 EMX2 OR HOXB1 OR LEUKEMIA INHIBITORY FACTOR OR NESTIN

=> s 13 and 110

L11 76 L3 AND L10

=> dup rem 11 1

PROCESSING COMPLETED FOR L11

L12 45 DUP REM L11 (31 DUPLICATES REMOVED)

=> d ti so 1-45

L12 ANSWER 1 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Quantitation and functional characterization of neural cells derived from

ES cells using nestin enhancer-mediated targeting in vitro.

SO Journal of Cell Science, (April 1, 2002) Vol. 115, No. 7, pp. 1471-1485

http://jcs.biologists.org/. print. ISSN: 0021-9533.

L12 ANSWER 2 OF 45 MEDLINE

DUPLICATE 1

TI Early neuronal and glial determination from mouse E10.5 telencephalon embryonic stem cells: an in vitro study.

SO NEUROREPORT, (2002 Jul 2) 13 (9) 1209-14. Journal code: 9100935. ISSN: 0959-4965.

L12 ANSWER 3 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Noggin and chordin have distinct activities in promoting lineage commitment of mouse embryonic stem (ES) cells.

SO Developmental Biology, (May 1, 2002) Vol. 245, No. 1, pp. 83-94. http://www.academicpress.com/db. print. ISSN: 0012-1606. L12 ANSWER 4 OF 45 CAPLUS COPYRIGHT 2002 ACS
TI Neural progenitor cell populations obtained from culturing stem
cells in

cocktail of growth conditions SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

L12 ANSWER 5 OF 45 CAPLUS COPYRIGHT 2002 ACS

TI Novel method for inducing the differentiation of embryonic stem cells into ectodermal cells and its use

SO PCT Int. Appl., 138 pp. CODEN: PIXXD2

L12 ANSWER 6 OF 45 CAPLUS COPYRIGHT 2002 ACS

TI Derivation of midbrain dopaminergic neurons from embryonic stem cells

SO PCT Int. Appl., 66 pp. CODEN: PIXXD2

L12 ANSWER 7 OF 45 CAPLUS COPYRIGHT 2002 ACS

TI Embryonic stem cells and neural progenitor cells derived therefrom

SO PCT Int. Appl., 125 pp. CODEN: PIXXD2

L12 ANSWER 8 OF 45 MEDLINE

DUPLICATE 2

TI The ribosomal S6 kinases, cAMP-responsive element-binding, and STAT3

proteins are regulated by different leukemia inhibitory factor signaling pathways in mouse embryonic stem cells.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Dec 7) 276 (49) 46204-11.

Journal code: 2985121R. ISSN: 0021-9258.

L12 ANSWER 9 OF 45 CAPLUS COPYRIGHT 2002 ACS

TI Forced expression of the Oct-4 gene influences differentiation of embryonic stem cells

SO Chinese Science Bulletin (2001), 46(17), 1446-1449 CODEN: CSBUEF; ISSN: 1001-6538

L12 ANSWER 10 OF 45 CAPLUS COPYRIGHT 2002 ACS

TI Differentiation of embryonic stem cells to insulin-secreting structures similar to pancreatic islets

SO Science (Washington, DC, United States) (2001), 292(5520), 1389-1394

CODEN: SCIEAS; ISSN: 0036-8075

L12 ANSWER 11 OF 45 MEDLINE

DUPLICATE 3

TI The neurotrophic factors in non-neuronal tissues.

SO CELLULAR AND MOLECULAR LIFE SCIENCES, (2001 Jul) 58 (8) 1061-6. Ref: 64

Journal code: 9705402. ISSN: 1420-682X.

L12 ANSWER 12 OF 45 MEDLINE

TI Neuronal differentiation of mouse embryonic stem cells: lineage selection and forced differentiation paradigms.

SO BLOOD CELLS, MOLECULES, AND DISEASES, (2001 May-Jun) 27 (3) 705-12.

Journal code: 9509932. ISSN: 1079-9796.

L12 ANSWER 13 OF 45 MEDLINE

DUPLICATE 4

TI Nestin-specific green fluorescent protein expression in embryonic stem cell-derived neural precursor cells used for transplantation.

SO STEM CELLS, (2001) 19 (5) 419-24. Journal code: 9304532. ISSN: 1066-5099.

L12 ANSWER 14 OF 45 MEDLINE

DUPLICATE 5

TI Enrichment of neurons and neural precursors from human embryonic stem cells.

SO EXPERIMENTAL NEUROLOGY, (2001 Dec) 172 (2) 383-97. Journal code: 0370712. ISSN: 0014-4886. L12 ANSWER 15 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Organization of neural lineage cells in embryoid bodies derived

murine embryonic stem (ES) cells.

SO Society for Neuroscience Abstracts, (2001) Vol. 27, No. 1, pp. 347.

Meeting Info.: 31st Annual Meeting of the Society for Neuroscience San

Diego, California, USA November 10-15, 2001 ISSN: 0190-5295.

L12 ANSWER 16 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Mechanisms of neuronal development from embryonic stem cells.

SO Society for Neuroscience Abstracts, (2001) Vol. 27, No. 1, pp. 346. print.

Meeting Info.: 31st Annual Meeting of the Society for Neuroscience

Diego, California, USA November 10-15, 2001 ISSN: 0190-5295.

L12 ANSWER 17 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE

TI The regulation of embryonic stem cell

differentiation by leukaemia inhibitory factor (LIF.

SO Differentiation, (October, 2001) Vol. 68, No. 4-5, pp. 227-234.

ISSN: 0301-4681.

L12 ANSWER 18 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Characterization of embryonic stem (ES) cells as potential source of retinal progenitors.

SO IOVS, (March 15, 2001) Vol. 42, No. 4, pp. S198. print. Meeting Info.: Annual Meeting of the Association for Research in

and Ophthalmology Fort Lauderdale, Florida, USA April 29-May 04,

L12 ANSWER 19 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE

TI Effect of brain-derived neurotrophic factor on neural differentiation of

mouse embryonic stem cells and neural precursor cells.

SO Neuroscience Research Communications, (November December, 2001) Vol. 29,

No. 3, pp. 183-192. print. ISSN: 0893-6609.

L12 ANSWER 20 OF 45 CAPLUS COPYRIGHT 2002 ACS

TI Differentiation of embryonic stem cell

-derived dopaminergic neurons is enhanced by survival-promoting

SO Mechanisms of Development (2001), 105(1-2), 93-104 CODEN: MEDVE6; ISSN: 0925-4773

L12 ANSWER 21 OF 45 MEDLINE

DUPLICATE 8

TI Direct neural fate specification from embryonic stem cells: a primitive mammalian neural stem cell stage acquired through a default mechanism.

SO NEURON, (2001 Apr) 30 (1) 65-78. Journal code: 8809320. ISSN: 0896-6273.

DUPLICATE 9 L12 ANSWER 22 OF 45 MEDLINE

TI Differentiation of green fluorescent protein-labeled embryonic stem cell-derived neural precursor cells into Thy-1-positive neurons and glia after transplantation into adult rat striatum.

SO JOURNAL OF NEUROSURGERY, (2000 Dec) 93 (6) 1026-32. Journal code: 0253357. ISSN: 0022-3085.

L12 ANSWER 23 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI A novel in vitro assay for teratogen screening using embryonic stem cells.

SO Reproductive Toxicology, (November December, 2000) Vol. 14, No. 6, pp.

565. print.

Meeting Info.: 28th Conference of European Teratology Society

Italy September 11-14, 2000 European Teratology Society . ISSN: 0890-6238.

L12 ANSWER 24 OF 45 MEDLINE

DUPLICATE 10

TI Differentiation of rat striatal embryonic stem

cells in vitro: monolayer culture vs. three-dimensional coculture with differentiated brain cells.

SO JOURNAL OF NEUROSCIENCE RESEARCH, (2000 Feb 15) 59 (4) 504-12.

Journal code: 7600111. ISSN: 0360-4012.

L12 ANSWER 25 OF 45 MEDLINE

DUPLICATE 11

TI The ciliary neurotrophic factor and its receptor, CNTFR alpha.

SO PHARMACEUTICA ACTA HELVETIAE, (2000 Mar) 74 (2-3) 265-72. Ref: 61

Journal code: 0401134. ISSN: 0031-6865.

L12 ANSWER 26 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Positional specification of in vitro generated, ESEs cell-derived neural

progenitors.

SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract

No.-23.2. print.

Meeting Info.: 30th Annual Meeting of the Society of Neuroscience New

Orleans, LA, USA November 04-09, 2000 Society for Neuroscience . ISSN: 0190-5295.

L12 ANSWER 27 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Conservation of regulated neural gene expression in a human pluripotent

stem cell line.

SO Society for Neuroscience Abstracts., (1999) Vol. 25, No. 1-2, pp.

Meeting Info.: 29th Annual Meeting of the Society for Neuroscience. Miami

Beach, Florida, USA October 23-28, 1999 Society for Neuroscience . ISSN: 0190-5295.

L12 ANSWER 28 OF 45 CAPLUS COPYRIGHT 2002 ACS

TI Neurons derived in vitro from ES cells express homeoproteins characteristic of motoneurons and interneurons

SO Mechanisms of Development (1998), 79(1,2), 185-198 CODEN: MEDVE6; ISSN: 0925-4773

L12 ANSWER 29 OF 45 MEDLINE

DUPLICATE 12

TI Leukemia inhibitory factor in human

reproduction.

SO AMERICAN JOURNAL OF REPRODUCTIVE IMMUNOLOGY, (1998 Feb) 39 (2) 144-51.

Ref: 94

Journal code: 8912860. ISSN: 1046-7408.

L12 ANSWER 30 OF 45 MEDLINE

DUPLICATE 13

TI Blastula-stage stem cells can differentiate into dopaminergic and serotonergic neurons after transplantation.

SO EXPERIMENTAL NEUROLOGY, (1998 Jan) 149 (1) 28-41. Journal code: 0370712. ISSN: 0014-4886.

L12 ANSWER 31 OF 45 MEDLINE

DUPLICATE 14

TI Retinoic acid mediates Pax6 expression during in vitro differentiation of

embryonic stem cells.

SO DIFFERENTIATION, (1997 Dec) 62 (4) 187-92. Journal code: 0401650. ISSN: 0301-4681.

L12 ANSWER 32 OF 45 CAPLUS COPYRIGHT 2002 ACS

TI Targeted deletion in astrocyte intermediate filament (Gfap) alters neuronal physiology

SO Proceedings of the National Academy of Sciences of the United

America (1996), 93(13), 6361-6366 CODEN: PNASA6; ISSN: 0027-8424

L12 ANSWER 33 OF 45 MEDLINE

DUPLICATE 15

TI Cardiotrophin-1 displays early expression in the murine heart tube

promotes cardiac myocyte survival.

SO DEVELOPMENT, (1996 Feb) 122 (2) 419-28. Journal code: 8701744. ISSN: 0950-1991.

L12 ANSWER 34 OF 45 CAPLUS COPYRIGHT 2002 ACS

TI Development of neuronal precursor cells and functional postmitotic neurons from embryonic stem cells in vitro

SO Mechanisms of Development (1996), 59(1), 89-102 CODEN: MEDVE6; ISSN: 0925-4773

L12 ANSWER 35 OF 45 MEDLINE

TI Cardiotrophin-1: a multifunctional cytokine that signals via LIF receptor-gp 130 dependent pathways.

SO CYTOKINE AND GROWTH FACTOR REVIEWS, (1996 Jun) 7 (1) 81-91. Ref: 63

Journal code: 9612306. ISSN: 1359-6101.

L12 ANSWER 36 OF 45 MEDLINE

DUPLICATE 16

TI Cardiotrophin-1. Biological activities and binding to the leukemia inhibitory factor receptor/gp130 signaling complex.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1995 May 5) 270 (18) 10915-22.

Journal code: 2985121R. ISSN: 0021-9258.

L12 ANSWER 37 OF 45 MEDLINE

DUPLICATE 17

TI In vitro differentiation of embryonic stem cells into glial cells and functional neurons.

SO JOURNAL OF CELL SCIENCE, (1995 Oct) 108 (Pt 10) 3181-8. Journal code: 0052457. ISSN: 0021-9533.

L12 ANSWER 38 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Embryonic stem cells transplanted to the

adult brain: Tyrosine hydroxylase (TH) positive neurons developed spontaneously and by transfection with human TH gene. SO Society for Neuroscience Abstracts, (1995) Vol. 21, No. 1-3, pp. 2028.

Meeting Info.: 25th Annual Meeting of the Society for Neuroscience San

Diego, California, USA November 11-16, 1995 ISSN: 0190-5295.

L12 ANSWER 39 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI ES-like cell cultures derived from early zebrafish embryos.

SO Molecular Marine Biology and Biotechnology, (1995) Vol. 4, No. 3, pp.

193-199.

ISSN: 1053-6426:

L12 ANSWER 40 OF 45 MEDLINE **DUPLICATE 18**

TI Ciliary neurotrophic factor maintains the pluripotentiality of embryonic stem cells.

SO DEVELOPMENT, (1993 Nov) 119 (3) 559-65. Journal code: 8701744. ISSN: 0950-1991.

L12 ANSWER 41 OF 45 MEDLINE

TI Leukemia inhibitory factor (LIF): a growth factor with pleiotropic effects on bone biology.

SO PROGRESS IN GROWTH FACTOR RESEARCH, (1992) 4 (4) 337-53. Ref: 138

Journal code: 8912757. ISSN: 0955-2235.

L12 ANSWER 42 OF 45 MEDLINE

TI Distribution and binding properties of receptors for leukaemia inhibitory

SO CIBA FOUNDATION SYMPOSIUM, (1992) 167 227-39; discussion 239-44. Ref: 19

Journal code: 0356636. ISSN: 0300-5208.

L12 ANSWER 43 OF 45 MEDLINE

TI The leukemia inhibitory factor (LIF).

SO INTERNATIONAL JOURNAL OF CELL CLONING, (1991 Mar) 9 (2) 95-108. Ref: 52

Journal code: 8308172. ISSN: 0737-1454.

L12 ANSWER 44 OF 45 CAPLUS COPYRIGHT 2002 ACS

TI New development of studies on nerve differentiation factors

SO Jikken Igaku (1990), 8(12), 1582-7 CODEN: JIIGEF; ISSN: 0288-5514

L12 ANSWER 45 OF 45 MEDLINE

DUPLICATE 19

TI The cholinergic neuronal differentiation factor from heart cells is identical to leukemia inhibitory factor.

SO SCIENCE, (1989 Dec 15) 246 (4936) 1412-6. Journal code: 0404511. ISSN: 0036-8075.

=> d ibib ab 43,40,37,34,17

L12 ANSWER 43 OF 45 MEDLINE

ACCESSION NUMBER: 91245208 MEDLINE DOCUMENT NUMBER: 91245208 PubMed ID: 1645391

The leukemia inhibitory factor

AUTHOR: Metcalf D

CORPORATE SOURCE: Walter and Eliza Hall Institute of Medical

Research,

Melbourne, Australia.

SOURCE: INTERNATIONAL JOURNAL OF CELL

CLONING, (1991 Mar) 9 (2)

95-108. Ref: 52

Journal code: 8308172. ISSN: 0737-1454.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE: English

FILE SEGMENT: **Priority Journals**

ENTRY MONTH: 199107

Entered STN: 19910719 ENTRY DATE:

Last Updated on STN: 19910719

Entered Medline: 19910701

AB Leukemia inhibitory factor (LIF) is a

glycoprotein able to enforce differentiation and/or suppress clonogenic

self-renewal in a number of myeloid leukemic cell lines. When acting

normal embryonic stem cells, it has the

opposite action of preventing differentiation commitment. LIF is not

proliferative factor when acting alone on normal hemopoietic cells, but

can potentiate the action of interleukin 3 on blast cell and megakaryocyte

precursors. When injected in vivo, LIF stimulates rises in megakarvocyte

numbers and platelet levels. LIF also exhibits striking functional

effects

to

on a wide range of other cells including hepatic parenchymal cells, neurones, adipocytes, osteoblasts and gonadal cells. The polyfunctionality of LIF suggests strongly that it is normally intended

be produced locally and act as a local regulator. Despite its wide range

of actions, LIF remains a promising candidate for clinical use in thrombocytopenia and myeloid leukemia.

L12 ANSWER 40 OF 45 MEDLINE

DUPLICATE 18

ACCESSION NUMBER: 94244460 MEDLINE

DOCUMENT NUMBER: 94244460 PubMed ID: 8187629 Ciliary neurotrophic factor maintains the TITLE:

pluripotentiality

of embryonic stem cells.

Conover J C; Ip N Y; Poueymirou W T; Bates B; AUTHOR: Goldfarb M P;

DeChiara T M; Yancopoulos G D

CORPORATE SOURCE: Regeneron Pharmaceuticals, Inc.,

Tarrytown, New York 10591.

DEVELOPMENT, (1993 Nov) 119 (3) 559-65. SOURCE:

Journal code; 8701744. ISSN: 0950-1991.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

199406 ENTRY MONTH:

ENTRY DATE: Entered STN: 19940629

Last Updated on STN: 20000303

Entered Medline: 19940620

AB Ciliary neurotrophic factor was discovered based on its ability to support

the survival of ciliary neurons, and is now known to act on a variety of neuronal and glial populations. Two distant relatives of ciliary neurotrophic factor, leukemia inhibitory

factor and oncostatin M, mimic ciliary neurotrophic factor with respect to its actions on cells of the nervous system. In contrast to ciliary neurotrophic factor, leukemia inhibitory

factor and oncostatin M also display a broad array of actions on cells outside of the nervous system. The overlapping activities of leukemia inhibitory factor, oncostatin M and

ciliary neurotrophic factor can be attributed to shared receptor components. The specificity of ciliary neurotrophic factor for cells of the nervous system results from the restricted expression of the alpha component of the ciliary neurotrophic factor receptor complex, which

required to convert a functional leukemia inhibitory factor/oncostatin M receptor complex into a ciliary neurotrophic factor receptor complex. The recent observation that the alpha component

of the ciliary neurotrophic factor receptor complex is expressed by very

early neuronal precursors suggested that ciliary neurotrophic factor may act on even earlier precursors, particularly on cells previously thought to be targets for leukemia inhibitory factor action. Here we show the first example of ciliary neurotrophic factor responsiveness in cells residing outside of the nervous system by demonstrating that embryonic stem cells express a functional ciliary neurotrophic factor receptor complex, and that ciliary neurotrophic factor is similar to leukemia inhibitory factor in its ability to maintain the pluripotentiality of these cells.

L12 ANSWER 37 OF 45 MEDLINE

DUPLICATE 17

ACCESSION NUMBER: 96019252 MEDLINE

DOCUMENT NUMBER: 96019252 PubMed ID: 7593279

TITLE:

In vitro differentiation of embryonic

stem cells into glial cells and

AUTHOR:

Fraichard A; Chassande O; Bilbaut G; Dehay C;

Savatier P:

Samarut J

CORPORATE SOURCE: Laboratoire de Biologie Moleculaire et

Cellulaire de l'ENS,

UMR 49 CNRS, Ecole Normale Superieure de Lyon,

France.

JOURNAL OF CELL SCIENCE, (1995 Oct) 108 (Pt

SOURCE: 10) 3181-8.

Journal code: 0052457. ISSN: 0021-9533.

ENGLAND: United Kingdom PUB. COUNTRY:

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: ' Priority Journals 199512

ENTRY MONTH:

Entered STN: 19960124 ENTRY DATE: Last Updated on STN: 19960124 Entered Medline: 19951218

AB Mouse embryonic stem cells were induced to

differentiate in culture with retinoic acid. Putative precursors of neurons and glial cells (nestin-positive cells) were clearly identified as early as three days after the onset of differentiation. At day 6, neuron-like cells could be clearly identified, either as isolated cells or as cellular networks. Some of these cells were positive for astrocyte- or oligodendrocyte-specific antigens (GFAP or O4 antigens, respectively). Other cells were

for neuron-specific antigens (cytoskeleton proteins MAP2, MAP5 and NF200, as well as synaptophysin). Some neuronal-like cells were also positive for acetylcholinesterase activity or glutamic acid decarboxylase expression, indicating that ES cells could differentiate into GABAergic and possibly cholinergic neurons.

Electrophysiological analyses performed in voltage clamp conditions

that cell membranes contained voltage-dependent channels.

Overshooting

action potentials could be triggered by current injection. Taken together,

these data provide evidence that embryonic stem cells can differentiate first into neuron-glia progenitors, and later into glial cells and functional neurons. in vitro. This technique provides an unique system to study early

steps of neuronal differentiation in vitro.

L12 ANSWER 34 OF 45 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1996:552305 CAPLUS

DOCUMENT NUMBER:

125:271621

TITLE:

Development of neuronal precursor cells and functional postmitotic neurons from

vitro

AUTHOR(S):

Okabe, Shigeo; Forsberg-Nilsson, Karin; Spiro,

A.

Cyril; Segal, Menahem; McKay, Ronald D. G. CORPORATE SOURCE: Laboratory of Molecular Biology,

National Institute of Neurological Disorders and Stroke, National Institutes

embryonic stem cells in

of Health, Bethesda, 20892 MD, USA

SOURCE:

Mechanisms of Development (1996), 59(1), 89-

102

CODEN: MEDVE6; ISSN: 0925-4773

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

Elsevier Journal English

AB To understand the mechanism of the sequential restriction of multipotency

of stem cells during development, we have established culture

that allow the differentiation of neuroepithelial precursor cells from embryonic stem (ES) cells. A highly enriched population of neuroepithelial precursor cells derived from ES cells proliferates in

presence of basic fibroblast growth factor (bFGF). These cells differentiate into both neurons and glia following withdrawal of bFGF. By further differentiating the cells in serum-contg. medium,

neurons express a wide variety of neuron-specific genes

and generate both excitatory and inhibitory synaptic connections. The

expression pattern of position-specific neural markers suggests the presence of a variety of central nervous system (CNS) neuronal cell types. These findings indicate that neuronal precursor cells can be isolated from ES cells and that these cells can efficiently differentiate into functional post-mitotic neurons of diverse CNS structures.

L12 ANSWER 17 OF 45 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE

ACCESSION NUMBER: 2001:557742 BIOSIS DOCUMENT NUMBER: PREV200100557742 TITLE:

The regulation of embryonic stem cell differentiation by leukaemia inhibitory factor CLIF.

AUTHOR(S): Murray, Patricia; Edgar, David (1)

CORPORATE SOURCE: (1) Department of Human Anatomy and Cell Biology,

University of Liverpool, Ashton Street, Liverpool, L69

3GE:

dhedgar@liv.ac.uk UK

SOURCE: Differentiation, (October, 2001) Vol. 68, No. 4-5, pp.

227-234. print. ISSN: 0301-4681.

DOCUMENT TYPE: Article LANGUAGE: English SUMMARY LANGUAGE: English

AB LIF (leukaemia inhibitory factor) is commonly used to maintain mouse

embryonic stem cells in an undifferentiated

state. These cells spontaneously differentiate when allowed to aggregate

in the absence of LIF, forming embryoid bodies in which early embryonic

cell lineages develop. Using embryoid bodies cultured in the presence

absence of LIF, we show that although LIF inhibited the development

visceral and parietal endodermal cells, it did not affect the differentiation of the primitive endodermal cell precursors of these extraembryonic cell lineages. Furthermore, deposition of the basement

membrane produced by the primitive endodermal cells, which separates them

from the remaining cells of the embryoid body, still occurred. The differentiation of primitive ectodermal cells and their progeny was inhibited by LIF, as evidenced by the lack of expression of FGF-5, muscle.

and neuronal markers. However, cavitation of the embryoid body and maintenance of the cells in contact with the primitive endodermal basement membrane as an epiblast epithelium still occurred normally in the

presence of LIF. These results indicate that cavitation and formation οf

the epiblast epithelium are regulated by mechanisms distinct from those

controlling the differentiation of epiblast cell lineages. Furthermore, although epithelium formation and cavitation do not require the differentiation of visceral endodermal cells, the results are consistent with the hypothesis that the primitive endodermal basement

sufficient to induce the epithelialization of undifferentiated embryonic stem cells necessary for cavitation.

=> d his

(FILE 'HOME' ENTERED AT 13:31:41 ON 12 AUG 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 13:31:52 ON 12 AUG 2002

8688 S EMBRYONIC STEM CELL LI

731034 S NEURON? 1.2

13 733 S L1 AND L2

L4 56250 S SERUM FREE OR (WITHOUT(3A)SERUM) OR (MINUS(3A)SERUM)

L5 13 S L3 AND L4

9 DUP REM L5 (4 DUPLICATES REMOVED) 1.6

L7 14822 S DEFIN? MEDIA OR DEFIN? MEDIUM

1.8 12 S L3 AND L7

L9 6 DUP REM L8 (6 DUPLICATES REMOVED)

L10 7583 S EMX2 OR HOXBI OR LEUKEMIA INHIBITORY FACTOR OR NESTIN

LII 76 S L3 AND L10

45 DUP REM L11 (31 DUPLICATES REMOVED) L12

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NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment

NEWS 13 Jul 22 USAN to be reloaded July 28, 2002; saved answer sets no longer valid

NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY

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NEWS 16 Aug 08 CANCERLIT reload

NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on

NEWS 18 Aug 08 NTIS has been reloaded and enhanced

NEWS 19 Aug 09 JAPIO to be reloaded August 18, 2002

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=> S DEFAULT

4074 DEFAULT

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L3 1344202 NEURON OR NEURONAL OR NEURAL OR NESTIN

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L4 8 L1(P) L2(P) L3

=> DUP REM LA

PROCESSING COMPLETED FOR L4

3 DUP REM LA (5 DUPLICATES REMOVED) L5

=> D IBIB AB 1-3

L5 ANSWER 1 OF 3 MEDLINE

ACCESSION NUMBER: 2002229148 MEDLINE

DOCUMENT NUMBER: 21964619 PubMed ID: 11967557

TITLE: Neural induction, the default model and

embryonic stem cells.

AUTHOR: Munoz-Sanjuan Ignacio; Brivanlou Ali H CORPORATE SOURCE: Laboratory of Molecular Vertebrate

Embryology, The

Rockefeller University, New York, New York 10021, USA.

Nat Rev Neurosci, (2002 Apr.) 3 (4) 271-80. Ref: 111

Journal code: 100962781. ISSN: 1471-0048.

PUB. COUNTRY: England: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH:

200205 Entered STN: 20020423

ENTRY DATE: Last Updated on STN: 20020509

Entered Medline: 20020508

L5 ANSWER 2 OF 3 MEDLINE

DUPLICATE 2

ACCESSION NUMBER: 2001241379 MEDLINE

DOCUMENT NUMBER: 21243067 PubMed ID: 11343645

TITLE:

Direct neural fate specification from

embryonic stem cells: a

primitive mammalian neural stem cell stage

acquired through a default mechanism.

AUTHOR: Tropepe V; Hitoshi S; Sirard C; Mak T W; Rossant J;

van der

CORPORATE SOURCE: Department of Anatomy & Cell Biology,

University of Toronto, Ontario M5S 1A8, Toronto, Canada.

SOURCE: NEURON, (2001 Apr) 30 (1) 65-78.

Journal code: 8809320, ISSN: 0896-6273.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200105

ENTRY DATE: Entered STN: 20010604

Last Updated on STN: 20010604

Entered Medline: 20010531

AB Little is known about how neural stem cells are formed initially during'

development. We investigated whether a default mechanism of neural specification could regulate acquisition of neural stem cell identity directly from embryonic stem (ES) cells. ES cells cultured in defined, low-density conditions readily acquire a neural identity. We characterize

a novel primitive neural stem cell as a component of neural lineage specification that is negatively regulated by TGFbeta-related signaling.

Primitive neural stem cells have distinct growth factor requirements, express neural precursor markers, generate neurons and glia in vitro, and

have neural and non-neural lineage potential in vivo. These results are

consistent with a default mechanism for neural fate specification and support a model whereby definitive neural stem cell formation is

by a primitive neural stem cell stage during neural lineage

L5 ANSWER 3 OF 3 MEDLINE

DUPLICATE 3

ACCESSION NUMBER: 94261603 MEDLINE

DOCUMENT NUMBER: 94261603 PubMed ID: 8202507 TITLE: Cell fates in leech embryos with duplicated lineages.

AUTHOR: Lans'D; Ho R K; Weisblat D A

CORPORATE SOURCE: Graduate Group in Neurobiology, University of California,

Berkeley 94720.

CONTRACT NUMBER: GM 07048 (NIGMS)

SOURCE: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE

UNITED STATES OF AMERICA, (1994 Jun 7) 91 (12)

5451-5.

Journal code: 7505876. ISSN: 0027-8424.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199407

ENTRY DATE: Entered STN: 19940714

Last Updated on STN: 19940714

Entered Medline: 19940706

AB We have examined the fates of the progeny of supernumerary embryonic stem cells (O/P teloblasts)

generated by microinjecting polyadenylic acid into newborn O/P teloblasts

in embryos of the leech, Helobdella triserialis. In normal development.

each O/P teloblast generates a rostrocaudal column of daughter cells (primary blast cells) that contribute distinct segmentally iterated O or

sets of epidermal and neural progeny to the mature leech. Previous results suggest that primary blast cells derived from ipsilateral

pairs of O/P teloblasts are equipotent and equivalent at birth; that they

and their progeny assume distinct O or P fates according to hierarchica

and position-dependent interactions; and that the P fate is the primary,

or default, fate and the O fate is the secondary fate. In the work presented here, one O/P teloblast was experimentally induced to undergo a supernumerary equal division, and the developmental fates

progeny of the three (two "duplicate" and one "nonduplicate") ipsilateral

O/P teloblasts were determined at stages 8 and 10. We find that some supernumerary O/P teloblasts produce supernumerary P progeny,

others generate supernumerary O progeny. When three O/P-derived bandlets

are present, bandlets derived from the duplicate O/P teloblasts give rise

to progeny of the same (O or P) fate. When the nonduplicate bandlet is

absent, the duplicate bandlets assume distinct O and P fates. These results suggest that ipsilateral sister O/P teloblasts, while equipotent, might not be equivalent.

=> D HIS

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LI 8704 S EMBRYONIC STEM CELL

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L4 8 S L1(P)L2(P)L3

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3 DUP REM L1 (2 DUPLICATES REMOVED) 1.2

=> d ti so 1-3

L2 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS TI Primitive neural stem cells and method for differentiation of stem

to neural cells SO PCT Int. Appl., 84 pp. CODEN: PIXXD2

L2 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS TI Neural stem cell lineages are regionally specified, but not committed.

within distinct compartments of the developing brain SO Development (Cambridge, United Kingdom) (2002), 129(1), 233-244

CODEN: DEVPED; ISSN: 0950-1991

L2 ANSWER 3 OF 3 MEDLINE **DUPLICATE 1** TI Mechanism of hyperthermia effects on CNS development: rostral

expression domains remain, despite severe head truncation; and the hindbrain/otocyst relationship is altered.

SO TERATOLOGY, (1999 Mar) 59 (3) 139-47. Journal code: 0153257. ISSN: 0040-3709.

=> d ibib ab 1,2

L2 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2002:256435 CAPLUS

DOCUMENT NUMBER:

136:275702

TITLE:

Primitive neural stem cells and method for differentiation of stem cells to neural cells

INVENTOR(S): Van der Kooy, Derek; Tropepe, Vincent PATENT ASSIGNEE(S): Can.

SOURCE: PCT Int. Appl., 84 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE WO 2002026941 A2 20020404 WO 2001-CA1383

20010928 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ,

CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,

LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO,

NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,

US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT,

BE, CH, CY,

DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,

BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,

PRIORITY APPLN. INFO.:

US 2000-236394P P 20000929

AB Described are a novel cell type in the neural lineage, and method of producing the same based on the degree of neural commitment and

factor responsiveness in vitro and the potential to give rise to neural and non-neural progeny in vivo. The novel cell type of neural lineage and

cells derived therefrom have a no. of applications including applications

regarding tissue engineering, transplantation and gene therapy and drug

discovery. Also described are suggested uses of the method and cell

including isolating genes that pos. and neg. regulate the transition from

an ES cell to a neural cell and generally for studying ES cell models of

mammalian neural development.

L2 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS 2002:88224 CAPLUS

ACCESSION NUMBER:

136:276499

DOCUMENT NUMBER: TITLE:

Neural stem cell lineages are regionally specified, but not committed, within distinct compartments of the developing brain

AUTHOR(S): · Hitoshi, Seiji; Tropepe, Vincent; Ekker, Marc; Van der

Kooy, Derek

CORPORATE SOURCE: Department of Anatomy and Cell Biology, University of

Toronto, Toronto, ON, M5S 1A8, Can. Development (Cambridge, United Kingdom)

SOURCE: (2002),

129(1), 233-244

CODEN: DEVPED; ISSN: 0950-1991

PUBLISHER: Company of Biologists Ltd. DOCUMENT TYPE: Journal LANGUAGE: English

AB Regional patterning in the developing mammalian brain is partially regulated by restricted gene expression patterns within the germinal zone.

which is composed of stem cells and their progenitor cell progeny. Whether or not neural stem cells, which are considered at the top of

neural lineage hierarchy, are regionally specified remains unknown. Here

the authors show that the cardinal properties of neural stem cells (self-renewal and multipotentiality) are conserved among embryonic cortex

ganglionic eminence and midbrain/hindbrain, but that these different

cells express sep. mol. markers of regional identity in vitro, even after passaging. Neural stem cell progeny derived from ganglionic

not from other regions are specified to respond to local environmental cues to migrate ventrolaterally, when initially deposited on the germinal

layer of ganglionic eminence in organotypic slice cultures. Cues exclusively from the ventral forebrain in a 5 day co-culture paradigm could induce both early onset and late onset marker gene expression

regional identity in neural stem cell colonies derived from both the dorsal and ventral forebrain as well as from the midbrain/hindbrain. Thus, neural stem cells and their progeny are regionally specified in

developing brain, but this regional identity can be altered by local inductive cues.

REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

=> s embryonic stem cell
L3 8707 EMBRYONIC STEM CELL

=> s emx2

L4 226 EMX2

=> s hoxb1

L5 239 HOXB1

=> s 13 and 14

L6 1 L3 AND L4

=> s 13 and 15

L7 1 L3 AND L5

=> d ti so

L7 ANSWER I OF 1 CAPLUS COPYRIGHT 2002 ACS TI An analysis of retinoic acid-induced gene expression and metabolism in AB1

embryonic stem cells

SO Journal of Biological Chemistry (1996), 271(25), 14971-14980 CODEN: JBCHA3; ISSN: 0021-9258

=> d ti so 16

L6 ANSWER 1 OF 1 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI Positional specification of in vitro generated, ESEs cell-derived neural

progenitors.

SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract

No.-23.2. print.

Meeting Info.: 30th Annual Meeting of the Society of Neuroscience New

Orleans, LA, USA November 04-09, 2000 Society for Neuroscience . ISSN: 0190-5295.

=> d his

(FILE 'HOME' ENTERED AT 08:49:03 ON 16 AUG 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 08:49:22 ON 16 AUG 2002

LI 5 S HOXBI AND EMX2

L2 3 DUP REM L1 (2 DUPLICATES REMOVED)

L3 8707 S EMBRYONIC STEM CELL

L4 226 S EMX2

L5 239 S HOXB1

L6 1 S L3 AND L4

L7 1 S L3 AND L5

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